

NC/QC/AMG/2022-23/P2/C1

Date: 16-09-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-02).}

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri. Yogesh.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	168 min	Shall not be less than 30 min
2	Final setting time	276 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.19 %	Not to exceed 10.0%
4	Soundness test (by Le-Chatelier's method)	2.13mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.86 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Cargil Factory Rd RHS From Main Rd PCC



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NC/QC/AMG/2022-23/P2/PCC1

Date: 16-09-2022

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri. Yogesh.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	64.15	0 - 20	30- 70
10mm	32.70	0 - 5	10- 35
4.75mm	4.05	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.45	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	83.20	60-95	75-100	85-100	
01.18	71.90	30-70	55-90	75-100	
600.mic	46.65	15-34	35-59	60-79	
300.mic	24.30	5-20	8-30	12-40	
150.mic	5.60	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Cargil Factory Rd RHS From Main Rd PCC

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A.E.E





NC/QC/AMG/2022-23/P2/PCC2

Date: 19-09-2022

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	62.10	0 -20	30- 70
10mm	28.75	0 -5	10- 35
4.75mm	3.20	----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.15	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	88.75	60-95	75-100	85-100	
01.18	70.90	30-70	55-90	75-100	
600 mic	46.55	15-34	35-59	60-79	
300 mic	21.90	5-20	8-30	12-40	
150 mic	5.40	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

5th Phase 2nd Cross Rd LHS From Cargil Factory Rd PCC

A.E.E.



NC/QC/AMG/2022-23/P2/PCC5

Date: 26-09-2022

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri. Yogesh.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	63.15	0 -20	30- 70
10mm	24.35	0 -5	10- 35
4.75mm	2.85	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.55	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	89.05	60-95	75-100	85-100	
01.18	73.20	30-70	55-90	75-100	
600 mic	42.20	15-34	35-59	60-79	
300 mic	29.75	5-20	8-30	12-40	
150 mic	7.60	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
5th Phase Cargil Factory Rd(5th Main Rd) LHS From Temple PCC

A.E.E



NC/QC/AMG/2022-23/P2/PCC8

Date: 12-10-2022

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

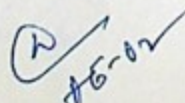
IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	66.15	0 - 20	30- 70
10mm	29.70	0 - 5	10- 35
4.75mm	3.55	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	93.45	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	80.20	60-95	75-100	85-100	
01.18	74.90	30-70	55-90	75-100	
600.mic	47.80	15-34	35-59	60-79	
300.mic	23.55	5-20	8-30	12-40	
150.mic	8.60	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
A -Sector 1st A Main Rd LHS From 2nd A Cross Rd PCC


A.E.E.


#6-02



NC/QC/AMG/2022-23/P2/FA1

Date: 14-09-2022

1. TESTING OF FINE AGGREGATES:

Sub: Testing of Fine Aggregates.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

TABLE - 1.1: SIEVE ANALYSIS

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -II	
04.75	96.35	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	83.65	60-95	75-100	85-100	
01.18	70.25	30-70	55-90	75-100	
600. mic	42.85	15-34	35-59	60-79	
300 mic	26.10	5-20	8-30	12-40	
150 mic	7.35	0-10	0-10	0-10	

TABLE 1.2:

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	17.69 %	-----
2	Silt Content	----	0.58%	Not more than 8%
3	Specific Gravity	----	2.61	-----

The result of the materials tested meets the standards and hence can be used for the work.
Kondappa Layout

A.E.E





NC/QC/AMG/2022-23/P2/CB1

Date: 23-09-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri. Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE**CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀**TABLE 1.1:**

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	16-09-22	23-09-22	07	22500	360	16.00	15.78
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	350	15.56	

The result of the materials tested meets the standards and hence can be used for the work.
Jnabharathi School Side 1st Cross Rd LHS From Dead End RaftRe
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NC/QC/AMG/2022-23/P2/CB2

Date: 26-09-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

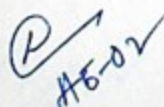
Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	19-09-22	26-09-22	07	22500	350	15.56	15.93
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	355	15.78	

The result of the materials tested meets the standards and hence can be used for the work
Esac Layout 1st Cross Rd LHS From Main Rd Raft


A.E.E.







NC/QC/AMG/2022-23/P2/CB3

Date: 27-09-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:**Sub:** Testing of Concrete Cubes (for 07days Compressive Strength).**{Project*:** Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }**Ref.** Material testing/PMC/22-23,**Report Required for:** Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.**Name of the Agency/Contractor*:** M/s Nandi Constructions, Sri . Yogesh.**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE****CUBE SPECIMENS****Dimensions of Specimen** : 150 X 150 X 150mm**Grade of Concrete*** : M₂₀**TABLE 1.1:**

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	20-09-22	27-09-22	07	22500	365	16.22	16.15
	002	"	"	"	"	350	15.56	
	003	"	"	"	"	375	16.67	

The result of the materials tested meets the standards and hence can be used for the work.
Esac Layout 1st Cross Rd LHS From Main Rd Wall

A.E.E.





NC/QC/AMG/2022-23/P2/CB4A

Date: 20-10-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri. Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE**CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀**TABLE 1.1:**

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	22-09-22	20-10-22	28	22500	480	21.33	21.04
	002	"	"	"	"	465	20.67	
	003	"	"	"	"	475	21.11	

The result of the materials tested meets the standards and hence can be used for the work.
Jnabharathi School Side 1st Cross Rd LHS From Dead End Wallt

A.E.E



NC/QC/AMG/2022-23/P2/CB6

Date: 01-10-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE I.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	24-09-22	01-10-22	07	22500	350	15.56	15.93
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	360	16.00	

The result of the materials tested meets the standards and hence can be used for the work.
5th Phase Cargil Factory Rd RHS From Main Rd Wall

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NC/QC/AMG/2022-23/P2/CB7

Date: 03-10-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	26-09-22	03-10-22	07	22500	365	16.22	16.30
	002	"	"	"	"	375	16.67	
	003	"	"	"	"	360	16.00	

The result of the materials tested meets the standards and hence can be used for the work.
5th Phase Cargil Factory Rd 2nd Cross Rd LHS From Cargil Factory Rd Wall

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A.E.E
AB-W



NC/QC/AMG/2022-23/P2/CB8

Date: 04-10-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

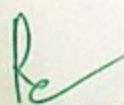
Dimensions of Specimen : 150 X 150 X 150mm

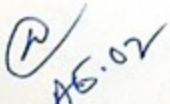
Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	27-09-22	04-10-22	07	22500	370	16.44	16.07
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	360	16.00	

The result of the materials tested meets the standards and hence can be used for the work.
Harohalli Cross Rd Raft


A.E.E


A.E.E



NC/QC/AMG/2022-23/P2/CB10

Date: 07-10-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

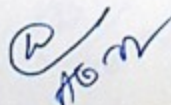
Grade of Concrete* : M₂₀

TABLE I.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	30-09-22	07-10-22	07	22500	360	16.00	15.93
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	345	15.33	

The result of the materials tested meets the standards and hence can be used for the work.
5th Phase Right Side Road 2nd Cross Rd RHS From Cargil Factory Rd Raft


A.E.E


H.M.N



NC/QC/AMG/2022-23/P2/CB11A

Date: 03-11-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri. Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	06-10-22	03-11-22	28	22500	475	21.11	20.74
	002	"	"	"	"	460	20.44	
	003	"	"	"	"	465	20.67	

The result of the materials tested meets the standards and hence can be used for the work.

A -Sector 1st A Main Rd LHS From 2nd A Cross Rd Raft

Handwritten signature
A.E.E



NC/QC/AMG/2022-23/P2/CB13

Date: 15-10-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri. Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

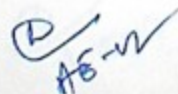
TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	08-10-22	15-10-22	07	22500	370	16.44	16.00
	002	"	"	"	"	350	15.56	
	003	"	"	"	"	360	16.00	

The result of the materials tested meets the standards and hence can be used for the work.

A -Sector 1st A Main Rd LHS From 2nd A Cross Rd Wall


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NC/QC/AMG/2022-23/P2/CB14A

Date: 07-11-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	10-10-22	07-11-22	28	22500	480	21.33	20.96
	002	"	"	"	"	460	20.44	
	003	"	"	"	"	475	21.11	

The result of the materials tested meets the standards and hence can be used for the work. .

A -Sector 1st A Main Rd RHS From 2nd A Cross Rd Wall

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NC/QC/AMG/2022-23/P2/CB16

Date: 14-10-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE I.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	14-10-22	21-10-22	07	22500	340	15.11	14.74
	002	"	"	"	"	330	14.67	
	003	"	"	"	"	325	14.44	

The result of the materials tested meets the standards and hence can be used for the work.

A -Sector 1st A Main Rd LHS From 2nd A Cross Rd Wall

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NC/QC/AMG/2022-23/P2/CB18A

Date: 14-11-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength)

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02).}

Ref: Material testing/PMC/22-23,

 Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

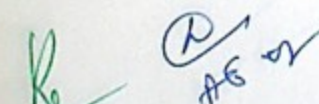
RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE
CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

 Grade of Concrete* : M₂₀
TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	17-10-22	14-11-22	28	22500	465	20.67	20.59
	002	"	"	"	"	455	20.22	
	003	"	"	"	"	470	20.89	

 The result of the materials tested meets the standards and hence can be used for the work.
Hanumappa layout & Allalasandra Main Road LHS From Library Wall


A.E.E


NC/QC/AMG/2022-23/P2/CB20

Date: 26-10-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri. Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

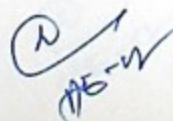
Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	19-10-22	26-10-22	07	22500	355	15.78	16.07
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	360	16.00	

The result of the materials tested meets the standards and hence can be used for the work
A -Sector 2nd A Cross Rd LHS From 1st A Main Rd Raft


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NC/QC/AMG/2022-23/P2/CB21A

Date: 17-11-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:**Sub:** Testing of Concrete Cubes (for 28days Compressive Strength).**{Project*:** Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02). }**Ref.** Material testing/PMC/22-23,**Report Required for:** Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore**Name of the Agency/Contractor*:** M/s Nandi Constructions, Sri Yogesh.**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE****CUBE SPECIMENS****Dimensions of Specimen** : 150 X 150 X 150mm**Grade of Concrete*** : M₂₀**TABLE 1.1:**

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	20-10-22	17-11-22	28	22500	470	20.89	20.89
	002	"	"	"	"	480	21.33	
	003	"	"	"	"	460	20.44	

The result of the materials tested meets the standards and hence can be used for the work.

A -Sector 2nd A Cross Rd LHS From 1st A Main Rd Coping

A.E.E.

NC/QC/AMG/2022-23/P2/CB24A

Date: 24-11-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri. Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

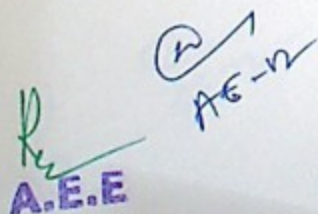
Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	27-10-22	24-11-22	28	22500	455	20.22	20.59
	002	"	"	"	"	475	21.11	
	003	"	"	"	"	460	20.44	

The result of the materials tested meets the standards and hence can be used for the work
5th Phase 4th Cross Rd LHS From Cargil Factory Rd Wall


A.E.E.



NC/QC/AMG/2022-23/P2/CB25A

Date: 26-11-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*} Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

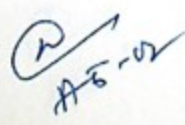
Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	29-10-22	26-11-22	28	22500	475	21.11	20.52
	002	"	"	"	"	450	20.00	
	003	"	"	"	"	460	20.44	

The result of the materials tested meets the standards and hence can be used for the work.
5th Phase Cargil Factory Rd(5th Main Rd) LHS From Temple Wall


A.E.E.



NC/QC/AMG/2022-23/P2/CB27

Date: 11-11-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project* Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	04-11-22	11-11-22	07	22500	350	15.56	15.56
	002	"	"	"	"	335	14.89	
	003	"	"	"	"	365	16.22	

The result of the materials tested meets the standards and hence can be used for the work.

Esac Layout 2nd Cross Rd LHS From Main Rd Wall

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NC/QC/AMG/2022-23/P2/S3

Date: 21-10-2022

TEST REPORT

Sub: Testing of Pre-cast Material-Precast Slab (100mm thick).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

1. PHYSICAL TESTS ON PRECAST SLAB:

Sl No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	90.00	0.442	2501.21	1.80	0.960	38.85	19.79	21.37	20.51	25.64
2	50.00	90.00	0.447	2529.50	1.80	0.960	38.45	19.58	21.15	20.30	25.38
3	50.00	90.00	0.441	2495.55	1.80	0.960	39.85	20.30	21.92	21.04	26.30

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Harohalli Cross Rd

Page No. 1/1

A.E.E





NC/QC/AMG/2022-23/P2/S6

Date: 20-11-2022

TEST REPORT

Sub: Testing of Pre-cast Material-Precast Slab (100mm thick).

{Project* Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

1. PHYSICAL TESTS ON PRECAST SLAB:

Sl No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg/m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	90.00	0.458	2591.75	1.80	0.960	38.40	19.56	21.12	20.28	25.35
2	50.00	90.00	0.451	2552.14	1.80	0.960	39.05	19.89	21.48	20.62	25.77
3	50.00	90.00	0.456	2580.43	1.80	0.960	39.20	19.96	21.56	20.70	25.87

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Hanumappa layout & Allalasandra Dead End Near Anriya Apartment

Page No. 1/1

A.E.E





NC/QC/AMG/2022-23/P2/K1

Date: 11-11-2022

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-02) }

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

1. PHYSICAL TESTS ON KERB STONES:

Sl No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	85.00	0.397	2378.71	1.70	0.960	31.85	16.22	17.52	16.82	21.02
2	50.00	85.00	0.402	2408.67	1.70	0.960	32.06	16.33	17.63	16.93	21.16
3	50.00	85.00	0.392	2348.75	1.70	0.960	32.45	16.53	17.85	17.13	21.42

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : 5th Phase Cargil Factory Rd RHIS From Main Rd

A.E.E

A.E.E

Page No. 1/1



NC/QC/AMG/2022-23/P2/K6

Date: 09-12-2022

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

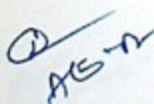
1. PHYSICAL TESTS ON KERB STONES:

Sl No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	85.00	0.419	2510.53	1.70	0.960	31.05	15.81	17.08	16.40	20.49
2	50.00	85.00	0.408	2444.62	1.70	0.960	31.64	16.11	17.40	16.71	20.88
3	50.00	85.00	0.412	2468.59	1.70	0.960	31.96	16.28	17.58	16.88	21.10

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : A -Sector Akshay Girish Kumar Rd


A.E.E


A.S.N

Page No. 1/1





NC/QC/AMG/2022-23/P2/PB1

Date: 16-12-2022

TEST REPORT

Sub: Testing of Pre-cast Paver Blocks of thickness 60mm.

{Project*} Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri . Yogesh.

Technical Reference*: IS 15658-2006.

Square Cobble = 200mm x 200mm

PHYSICAL TESTS ON PRECAST PAVER BLOCKS.

1.COMPRESSIVE STRENGTH:

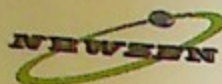
Sl No	Identification	Cross Sectional Area, mm ²	Load KN	Compressive Strength, N/mm ²	Average Compressive Strength, N/mm ²
1	001	40,000	1685	42.13	42.03
2	002	40,000	1650	41.25	
3	003	40,000	1690	42.25	
4	004	40,000	1700	42.50	

The result of the materials tested meets the standards and hence can be used for the work

Sample Collected Site: A-sector 1st A Main Rd

A.E.E





NC/QC/AMG/2022-23/P2/GSB1

Date: 21-09-2022

TEST REPORT ON GRANULAR SUBBASE MIX (GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

{Project* Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

TEST RESULTS

1. Gradation Test:

Location:

TABLE 1.1

Sample GSB = Total Weight of the Sample (gm) : 1050.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	0.00	0.00	0.00	100.00	100
53.00	86.00	86.00	8.19	91.81	80-100
26.50	139.00	225.00	21.43	78.57	55-90
9.50	162.00	387.00	36.86	63.14	35-65
4.75	205.00	592.00	56.38	43.62	25-50
2.36	280.00	872.00	83.05	16.95	10-20
0.85	125.00	997.00	94.95	5.05	2-10
0.425	53.00	1050.00	100.00	0.00	0-5

A.E.E





NC/QC/AMG/2022-23/P2/GSB2

Date: 22-10-2022

TEST REPORT ON GRANULAR SUBBASE MIX (GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

{Project* Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor* M/s Nandi Constructions, Sri. Yogesh.

TEST RESULTS

1. Gradation Test:

Location:

TABLE 1.1

Sample GSB = Total Weight of the Sample (gm) : 1080.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	0.00	0.00	0.00	100.00	100
53.00	93.00	93.00	8.61	91.39	80-100
26.50	149.00	242.00	22.41	77.59	55-90
9.50	151.00	393.00	36.39	63.61	35-65
4.75	209.00	602.00	55.74	44.26	25-50
2.36	267.00	869.00	80.46	19.54	10-20
0.85	150.00	1019.00	94.35	5.65	2-10
0.425	61.00	1080.00	100.00	0.00	0-5

R. A.E.E
17/10/22





NC/QC/AMG/2022-23/P2/DLC2

Date: 22-10-2022

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
		Single size	Graded
40mm	100.00	85-100	90 - 100
20mm	63.50	0 - 20	30- 70
10mm	32.80	0 - 5	10- 35
4.75mm	4.10	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.45	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.20	60-95	75-100	85-100	
01.18	73.85	30-70	55-90	75-100	
600 mic	47.55	15-34	35-59	60-79	
300 mic	23.15	5-20	8-30	12-40	
150 mic	6.20	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Hanumappa layout & Allalasandra Beside Chandre Gowda House

A.E.E.



NC/QC/AMG/2022-23/P2/CR1

Date: 29-09-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE I.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	22-09-22	29-09-22	07	22500	555	24.67	24.96
	002	"	"	"	"	560	24.89	
	003	"	"	"	"	570	25.33	

The result of the materials tested meets the standards and hence can be used for the work.

Jp Colony Main Rd

A.E.E. *AEW*



NC/QC/AMG/2022-23/P2/CR2

Date: 29-09-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength)

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	22-09-22	29-09-22	07	22500	570	25.33	25.04
	002	"	"	"	"	565	25.11	
	003	"	"	"	"	555	24.67	

The result of the materials tested meets the standards and hence can be used for the work.
Jp Colony Main Rd

A.E.E



NC/QC/AMG/2022-23/P2/CR3

Date: 29-09-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	22-09-22	29-09-22	07	22500	560	24.89	25.26
	002	"	"	"	"	575	25.56	
	003	"	"	"	"	570	25.33	

The result of the materials tested meets the standards and hence can be used for the work.
Jp Colony Main Rd


A.E.E



NC/QC/AMG/2022-23/P2/CR5A

Date: 21-10-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	23-09-22	21-10-22	28	22500	725	32.22	32.22
	002	"	"	"	"	720	32.00	
	003	"	"	"	"	730	32.44	

The result of the materials tested meets the standards and hence can be used for the work.
Jp Colony Main Rd

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AC-12
A.E.E



NC/QC/AMG/2022-23/P2/CR8

Date: 03-11-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

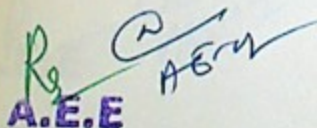
Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	27-10-22	03-11-22	07	22500	555	24.67	24.81
	002	"	"	"	"	550	24.44	
	003	"	"	"	"	570	25.33	

The result of the materials tested meets the standards and hence can be used for the work.
Hanumappa layout & Allalasandra Library Rd


A.E.E.



NC/QC/AMG/2022-23/P2/CR9A

Date: 25-11-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	28-10-22	25-11-22	28	22500	740	32.89	32.81
	002	"	"	"	"	750	33.33	
	003	"	"	"	"	725	32.22	

The result of the materials tested meets the standards and hence can be used for the work.
Hanumappa layout & Allalasandra Beside Chandre Gowda House

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AE-2
A.E.E



NC/QC/AMG/2022-23/P2/CR11A

Date: 13-12-2022

1. TEST REPORT ON CEMENT CONCRETE CUBES:**Sub:** Testing of Concrete Cubes (for 28days Compressive Strength).**{Project*}** Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-02) }**Ref.** Material testing/PMC/22-23,**Report Required for:** Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.**Name of the Agency/Contractor*:** M/s Nandi Constructions, Sri Yogesh.**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE****CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₃₀**TABLE 1.1:**

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	15-11-22	13-12-22	28	22500	740	32.89	32.96
	002	"	"	"	"	735	32.67	
	003	"	"	"	"	750	33.33	

The result of the materials tested meets the standards and hence can be used for the work.

Esac Layout 1st Cross Rd

A.E.E



NC/QC/AMG/2022-23/P2/CR13A

Date: 13-12-22

1. TEST REPORT ON CEMENT CONCRETE CUBES:**Sub:** Testing of Concrete Cubes (for 28days Compressive Strength).**{Project*}** Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02.)**Ref:** Material testing/PMC/22-23,**Report Required for:** Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore**Name of the Agency/Contractor*** M/s Nandi Constructions, Sri Yogesh.**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE****CUBE SPECIMENS****Dimensions of Specimen** : 150 X 150 X 150mm**Grade of Concrete*** : M₃₀**TABLE 1.1:**

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	15-11-22	13-12-22	28	22500	725	32.22	31.93
	002	"	"	"	"	720	32.00	
	003	"	"	"	"	710	31.56	

The result of the materials tested meets the standards and hence can be used for the work.
Esac Layout 11th Cross Rd

R. A.E.E.
A.E.E.



NC/QC/AMG/2022-23/P2/GSB4

Date: 05-12-2022

TEST REPORT ON GRANULAR SUBBASE MIX (GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

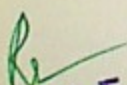
TEST RESULTS

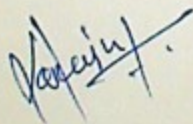
1. Gradation Test:

Location:

TABLE 1.1

Sample GSB = Total Weight of the Sample (gm) : 1040.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	0.00	0.00	0.00	100.00	100
53.00	184.00	184.00	17.69	82.31	80-100
26.50	168.00	352.00	33.85	66.15	55-90
9.50	135.00	487.00	46.83	53.17	35-65
4.75	238.00	725.00	69.71	30.29	25-50
2.36	181.00	906.00	87.12	12.88	10-20
0.85	107.00	1013.00	97.40	2.60	2-10
0.425	27.00	1040.00	100.00	0.00	0-5


A.E.E.







NC/QC/AMG/2022-23/P2/GSB5

Date: 08-12-2022

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)**Sub:** To conduct tests on GSB (Grade-V) mix.**{Project*:** Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }**Ref:** Material testing/PMC/22-23,**Report Required for:** Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore**Name of the Agency/Contractor*:** M/s Nandi Constructions, Sri. Yogesh.**TEST RESULTS****1. Gradation Test:****Location:****TABLE 1.1**

Sample GSB = Total Weight of the Sample (gm) : 1070.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	0.00	0.00	0.00	100.00	100
53.00	166.00	166.00	15.51	84.49	80-100
26.50	218.00	384.00	35.89	64.11	55-90
9.50	178.00	562.00	52.52	47.48	35-65
4.75	217.00	779.00	72.80	27.20	25-50
2.36	195.00	974.00	91.03	8.97	10-20
0.85	82.00	1056.00	98.69	4.31	2-10
0.425	14.00	1070.00	100.00	0.00	0-5

A.E.E
P.A.S-02

NC/QC/AMG/2022-23/P2/W1

Date: 30-11-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*} Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02.)

Ref: Material testing/PMC/22-23,

Report Required for Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor* M/s Nandi Constructions, Sri Yogesh.

TEST RESULTS

1. Gradation Test:

Location :

TABLE 1.1

Sample WMM = Total Weight of the Sample (gm) : 980.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	0.00	0.00	0.00	100.00	100
45.00	29.00	29.00	2.96	97.04	95-100
26.50	---	---	---	---	-
22.40	205.00	234.00	23.88	76.12	60-80
11.20	165.00	399.00	40.71	59.29	40-60
4.75	205.00	604.00	61.63	38.37	25-40
2.36	89.00	693.00	70.71	29.29	15-30
0.600	120.00	813.00	82.96	17.04	8-22
0.075	141.00	954.00	97.35	2.65	0-5
Pan	26.00	980.00	100.00	0.00	---

[Signature]
A.E.E



NC/QC/AMG/2022-23/P2/W2

Date: 01-12-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

TEST RESULTS

1. Gradation Test:

Location :

TABLE 1.1

Sample WMM = Total Weight of the Sample (gm) : 1025.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	0.00	0.00	0.00	100.00	100
45.00	38.00	38.00	3.71	96.29	95-100
26.50	---	---	---	---	-
22.40	219.00	257.00	25.07	74.93	60-80
11.20	169.00	426.00	41.56	58.44	40-60
4.75	237.00	663.00	64.68	35.32	25-40
2.36	99.00	762.00	74.34	25.66	15-30
0.600	120.00	882.00	86.05	13.95	8-22
0.075	124.00	1006.00	98.15	1.85	0-5
Pan	19.00	1025.00	100.00	0.00	---

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NC/QC/AMG/2022-23/P2/W3

Date: 05-12-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri. Yogesh.

TEST RESULTS

1. Gradation Test:

Location :

TABLE 1.1

Sample WMM = Total Weight of the Sample (gm) : 1000.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	0.00	0.00	0.00	100.00	100
45.00	29.00	29.00	2.90	97.10	95-100
26.50	---	---	---	---	-
22.40	202.00	231.00	23.10	76.90	60-80
11.20	209.00	440.00	44.00	56.00	40-60
4.75	220.00	660.00	66.00	34.00	25-40
2.36	108.00	768.00	76.80	23.20	15-30
0.600	134.00	902.00	90.20	9.80	8-22
0.075	89.00	991.00	99.10	0.90	0-5
Pan	9.00	1000.00	100.00	0.00	---

Rg
A.E.E

21-12-02





NC/QC/AMG/2022-23/P2/W4

Date: 08-12-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*} Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor* M/s Nandi Constructions, Sri Yogesh.

TEST RESULTS

1. Gradation Test:

Location :

TABLE 1.1

Sample WMM = Total Weight of the Sample (gm) : 1060.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	0.00	0.00	0.00	100.00	100
45.00	22.00	22.00	2.08	97.92	95-100
26.50	---	---	---	---	-
22.40	236.00	258.00	24.34	75.66	60-80
11.20	200.00	458.00	43.21	56.79	40-60
4.75	249.00	707.00	66.70	33.30	25-40
2.36	125.00	832.00	78.49	21.51	15-30
0.600	121.00	953.00	89.91	10.09	8-22
0.075	97.00	1050.00	99.06	0.94	0-5
Pan	10.00	1060.00	100.00	0.00	---

R. A.E.E.

P. 15-02





NC/QC/AMG/2022-23/P2/DBM1

Date: 01-12-2022

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*} Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor* M/s Nandi Constructions, Sri. Yogesh.

TEST RESULTS

A Type of Construction : Dense Graded Bituminous Macadam.

Location:

1. BITUMEN EXTRACTION TEST – DBM

TABLE 1.1

Sl no.	Description	Index	C1
1	Weight of the Sample, gm	S1	520.00
2	Weight of the Sample After Extraction, gm	S2	497.00
3	Initial weight of Filter paper, gm	F1	4.60
4	Final weight of Filter paper, gm	F2	5.30
5	Difference in weight of Filter Paper, gm	F= F2-F1	0.70
6	Bitumen Content, %	$\frac{S1-S2+F}{S1} \times 100$	4.56

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NC/QC/AMG/2022-23/P2/DBM2

Date: 01-12-2022

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02). }

Ref.: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

TEST RESULTS

A Type of Construction : Dense Graded Bituminous Macadam.

Location:

1. BITUMEN EXTRACTION TEST – DBM

TABLE 1.1

Sl no.	Description	Index	C1
1	Weight of the Sample, gm	S1	510.00
2	Weight of the Sample After Extraction, gm	S2	487.00
3	Initial weight of Filter paper, gm	F1	4.40
4	Final weight of Filter paper, gm	F2	4.60
5	Difference in weight of Filter Paper, gm	F= F2-F1	0.20
6	Bitumen Content, %	$\frac{S1-S2+F}{S1} \times 100$	4.55

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NC/QC/AMG/2022-23/P2/DBM3

Date: 05-12-2022

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*} Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref: Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor*: M/s Nandi Constructions, Sri Yogesh.

TEST RESULTS

A. Type of Construction : Dense Graded Bituminous Macadam.

Location:

1. BITUMEN EXTRACTION TEST - DBM

TABLE 1.1

Sl no.	Description	Index	C1
1	Weight of the Sample, gm	S1	550.00
2	Weight of the Sample After Extraction, gm	S2	526.00
3	Initial weight of Filter paper, gm	F1	3.50
4	Final weight of Filter paper, gm	F2	4.40
5	Difference in weight of Filter Paper, gm	F = F2-F1	0.90
6	Bitumen Content, %	$\frac{S1-S2+F}{S1} \times 100$	4.53

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2. Gradation Test – Extraction Sample

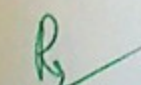
TABLE 2.1

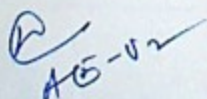
Sample C1 DBM = Total Weight of the Sample (gm) : 526.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Gradation requirement as per Table 500-10 of MORTH Specifications- 2013 DBM (Grading - 2)
37.5	0.00	0.00	0.00	100.00	100
26.5	35.00	35.00	6.65	93.35	90-100
19.0	105.00	140.00	26.62	73.38	71-95
13.20	84.00	224.00	42.59	57.41	56-80
4.75	79.00	303.00	57.60	42.40	38-54
2.36	69.00	372.00	70.72	29.28	28-42
0.300	82.00	454.00	86.31	13.69	7-21
0.075	49.00	503.00	95.63	4.37	2-8
Pan	23.00	526.00	100.00	0.00	---

3. Properties of DBM (Gr-2) Mix - Stability of Bituminous Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1195	900
2	Marshall Flow at 60°C, mm.	3.72	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work
Kere Kodi Rd


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NC/QC/AMG/2022-23/P2/DBM5

Date: 09-12-2022

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.

{Project*} Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-02). }

Ref: Material testing/PMC/22-23,

Report Required for Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor* M/s Nandi Constructions, Sri Yogesh

TEST RESULTS

A. Type of Construction : Dense Graded Bituminous Macadam.

Location:

1. BITUMEN EXTRACTION TEST – DBM

TABLE 1.1

Sl no.	Description	Index	C1
1	Weight of the Sample, gm	S1	500.00
2	Weight of the Sample After Extraction, gm	S2	478.00
3	Initial weight of Filter paper, gm	F1	3.80
4	Final weight of Filter paper, gm	F2	4.50
5	Difference in weight of Filter Paper, gm	F= F2-F1	0.70
6	Bitumen Content, %	$\frac{S1-S2+F}{S1} \times 100$	4.54

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2. Gradation Test – Extraction Sample

TABLE 2.1

Sample C1 DBM = Total Weight of the Sample (gm) : 479.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Gradation requirement as per Table 500-10 of MORTH Specifications-2013 DBM (Grading - 2)
37.5	0.00	0.00	0.00	100.00	100
26.5	24.00	24.00	5.01	94.99	90-100
19.0	76.00	100.00	20.88	79.12	71-95
13.20	88.00	188.00	39.25	60.75	56-80
4.75	96.00	284.00	59.29	40.71	38-54
2.36	60.00	344.00	71.82	28.18	28-42
0.300	95.00	439.00	91.65	8.35	7-21
0.075	26.00	465.00	97.08	2.92	2-8
Pan	14.00	479.00	100.00	0.00	---

3. Properties of DBM (Gr-2) Mix - Stability of Bituminous Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.O.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1225	900
2	Marshall Flow at 60°C, mm.	3.64	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work
Cargil Factory Rd 5th Phase

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NC/QC/AMG/2022-23/P2/BC1

Date: 03-12-2022

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*} Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for: Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore

Name of the Agency/Contractor* M/s Nandi Constructions, Sri . Yogesh

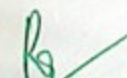
TEST RESULTS

A. Type of Construction : Bituminous Concrete

Location:

1. BITUMEN EXTRACTION TEST - BC TABLE 1.1

Sl no.	Description	Index	C1
1	Weight of the Sample, gm	S1	550.00
2	Weight of the Sample After Extraction, gm	S2	521.00
3	Initial weight of Filter paper, gm	F1	5.00
4	Final weight of Filter paper, gm	F2	5.80
5	Difference in weight of Filter Paper, gm	F= F2-F1	0.80
6	Bitumen Content, %	$\frac{S1-S2+F}{S1} \times 100$	5.42


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NC/QC/AMG/2022-23/P2/BC4

Date: 06-12-2022

1. TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, ISAAC layout kondappa layout, kamakshamma layout, hanumappa layout, A sector and surrounding areas in ward No 02 & 04 of yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-02) }

Ref. Material testing/PMC/22-23,

Report Required for Assistant Executive Engineer,
Yelahanka and Yelahanka Satellite Town Sub
Division, BBMP, Bangalore.

Name of the Agency/Contractor* M/s Nandi Constructions, Sri Yogesh

TEST RESULTS

A. Type of Construction : Bituminous Concrete

Location:

1. BITUMEN EXTRACTION TEST - BC

TABLE 1.1

Sl no.	Description	Index	C1
1	Weight of the Sample, gm	S1	550.00
2	Weight of the Sample After Extraction, gm	S2	520.00
3	Initial weight of Filter paper, gm	F1	4.00
4	Final weight of Filter paper, gm	F2	4.80
5	Difference in weight of Filter Paper, gm	F= F2-F1	0.80
6	Bitumen Content, %	$\frac{S1-S2+F}{S1} \times 100$	5.60

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2. Gradation Test - Extraction Test

TABLE 2.1

Sample C1 BC = Total Weight of the Sample (gm) : 520.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Gradation requirement as per Table 500-17 of MORTH Specifications- 2013 BC (Grading - 2)
19.0	0.00	0.00	0.00	100.00	100
13.2	45.00	45.00	8.65	91.35	90-100
9.5	78.00	123.00	23.65	76.35	70-88
4.75	79.00	202.00	38.85	61.15	53-71
2.36	63.00	265.00	50.96	49.04	42-58
1.18	56.00	321.00	61.73	38.27	34-48
0.600	49.00	370.00	71.15	28.85	26-38
0.300	42.00	412.00	79.23	20.77	18-28
0.150	36.00	448.00	86.15	13.85	12-20
0.075	42.00	490.00	94.23	5.77	4-10
Pan	30.00	520.00	100.00	0.00	---

3. Properties of BC (Gr-2) Mix - Stability of Bituminous Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.O.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1322	900
2	Marshall Flow at 60°C, mm.	3.41	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work
Kere Kodi Rd

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2. Gradation Test – Extraction Test

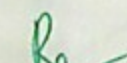
TABLE 2.1

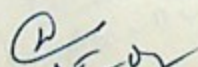
Sample C1 BC = Total Weight of the Sample (gm) : 502.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Gradation requirement as per Table 500-17 of MORTH Specifications-2013 BC (Grading - 2)
19.0	0.00	0.00	0.00	100.00	100
13.2	44.00	44.00	8.76	91.24	90-100
9.5	68.00	112.00	22.31	77.69	70-88
4.75	75.00	187.00	37.25	62.75	53-71
2.36	62.00	249.00	49.60	50.40	42-58
1.18	79.00	328.00	65.34	34.66	34-48
0.600	39.00	367.00	73.11	26.89	26-38
0.300	42.00	409.00	81.47	18.53	18-28
0.150	26.00	435.00	86.65	13.35	12-20
0.075	51.00	486.00	96.81	3.19	4-10
Pan	14.00	500.00	99.60	0.40	---

3. Properties of BC (Gr-2) Mix - Stability of Bituminous Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.O.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1285	900
2	Marshall Flow at 60°C, mm.	3.76	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work
5th Phase Cragil Factory Rd


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2. Gradation Test – Extraction Test

TABLE 2.1

Sample C1 BC = Total Weight of the Sample (gm) : 521.00					
Sieve Size, mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Gradation requirement as per Table 500-17 of MORTH Specifications- 2013 BC (Grading - 2)
19.0	0.00	0.00	0.00	100.00	100
13.2	46.00	46.00	9.35	90.65	90-100
9.5	66.00	112.00	22.76	77.24	70-88
4.75	67.00	179.00	36.38	63.62	53-71
2.36	70.00	249.00	50.61	49.39	42-58
1.18	75.00	324.00	65.85	34.15	34-48
0.600	39.00	363.00	73.78	26.22	26-38
0.300	35.00	398.00	80.89	19.11	18-28
0.150	25.00	423.00	85.98	14.02	12-20
0.075	42.00	465.00	94.51	5.49	4-10
Pan	27.00	492.00	100.00	0.00	---

3. Properties of BC (Gr-2) Mix - Stability of Bituminous Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.O.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	1276	900
2	Marshall Flow at 60°C, mm.	3.75	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work
A-sector 2nd A Cross Rd

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